CONCEPT

The design draws inspiration from the structure of trees, with three functional layers mimicking the canopy, trunk, and roots. The upper elements (funnels, solar panels) collect natural resources, the columns offer structural support and water transport, while the base ensures stability. Minimal intervention and organic forms aim for harmony with nature, enhanced by striking pink coloration. The system is modular and multifunctional, offering space for rest, play, and wildlife support. The overall goal is to create a serene, reflective environment that fosters a deep connection between people and nature.

INSTALLATION

Structures are placed in a sunlit, easily accessible clearing ensuring visual connection with the community. The site was chosen to minimize environmental disruption. The layout follows a dual-grid system, aligned with the terrain's natural slope and perpendicular directions. This creates a rhythm that feels both intentional and organic, inspired by the irregular yet harmonious structure of forests. Each column's height is calculated to prevent shading between solar panels.

MODULE

The system combines solar energy harvesting and rainwater collection with a design oriented toward efficiency and community engagement. Aluminum columns with integrated drainage support both solar panels and water funnels. The rainwater is directed underground to a central tank, while solar panels atop each column produce a total of 90 kW. Structural elements also support communal use with seating, lighting, and nesting options for birds, blending functionality with playful aesthetics.

ELECTRICITY

All electrical components are discreetly integrated into the landscape, with underground cabling. Five inverters manage the 200 solar panels, each connected to seven battery towers, ensuring energy storage and autonomous operation. A ground-level transformer prepares the collected energy for distribution.

WATER SUPPLY

Rainwater collected by the funnels flows via gravity through underground pipes, laid out according to the site's natural slope. The pipe network connects all columns to a central 125000 I underground water tank. From there, water flows toward the village for household use.



site plan 1:1000 10 m



communal use with seating, lighting, and nesting options for birds



